

1/11

FIG.1A

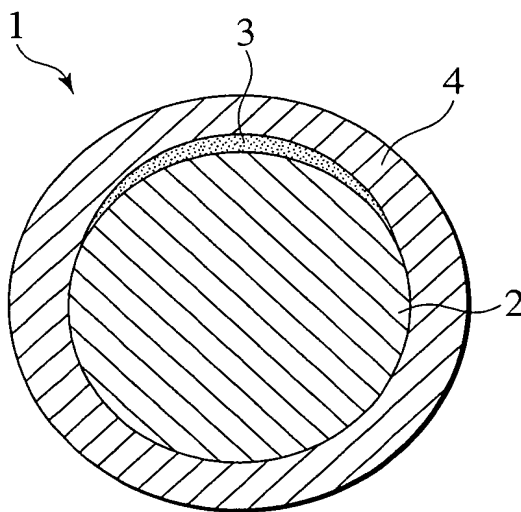
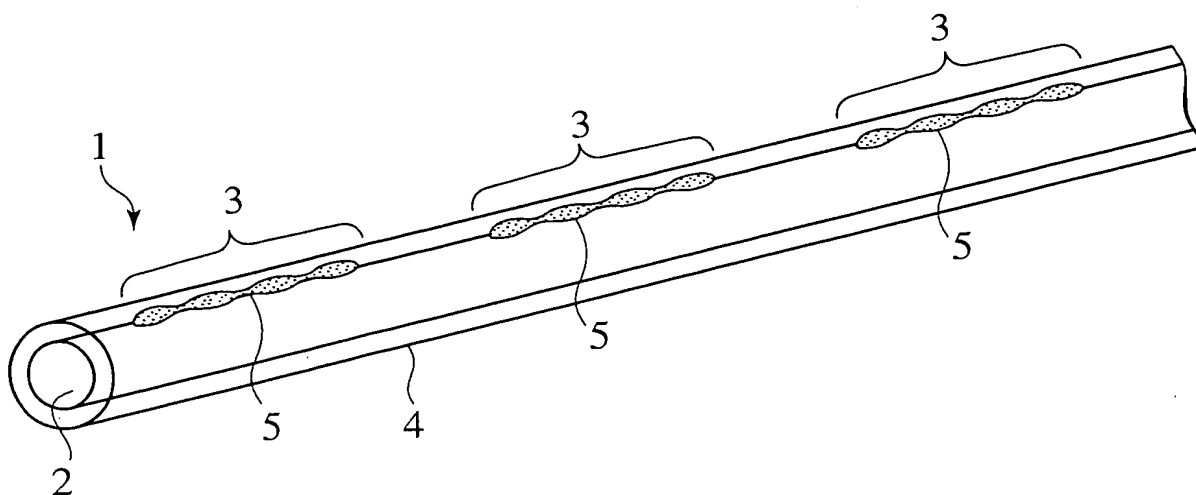
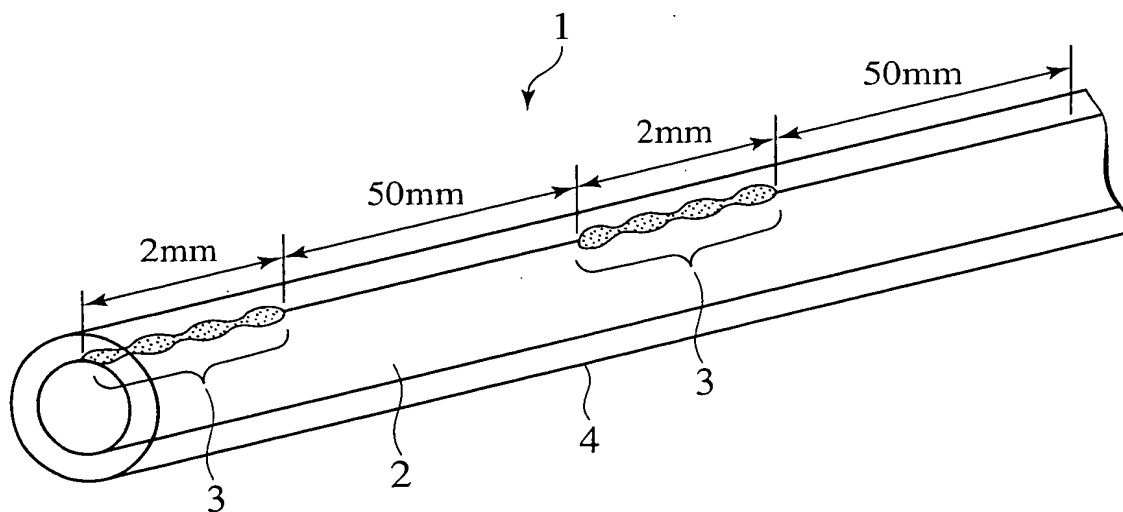


FIG.1B



2/11

FIG.2



3/11

FIG.3

	THICKNESS OF DISTINCTIVE LAYER (μm)	THICKNESS OF COLORED LAYER (μm)	VARIATIONS IN TRANSMISSION LOSS (dB/km)	DISTINCTIVENESS
TEST 1	0.4	5	0.00	×
TEST 2	0.5	5	0.00	○
TEST 3	2.5	5	0.00	○
TEST 4	2.6	5	0.05	○
TEST 5	0.5	5	0.00	○
TEST 6	0.5	10	0.00	○
TEST 7	0.5	11	0.00	×

4/11

FIG.4A

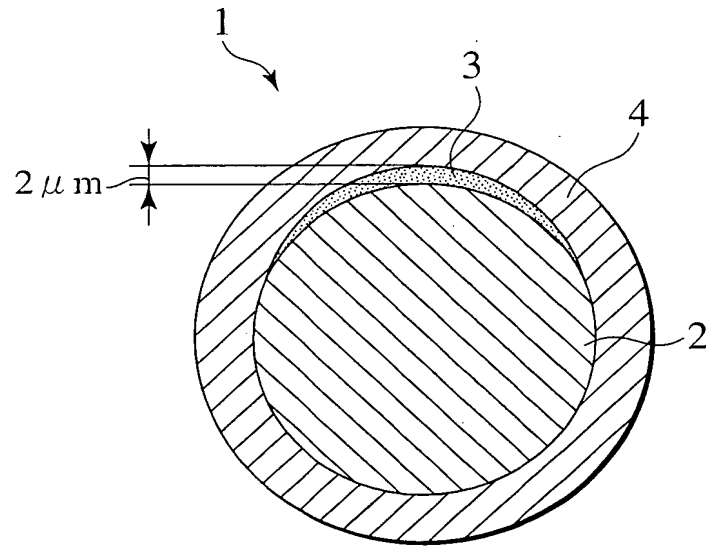
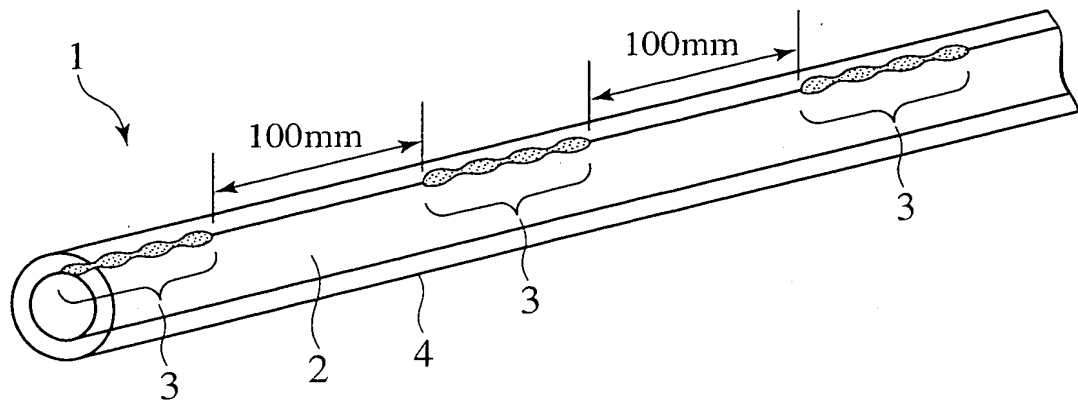


FIG.4B



5/11

FIG.5

	LENGTH OF DISTINCTIVE LAYER (mm)	THICKNESS OF COLORED LAYER (μ m)	VARIATIONS IN TRANSMISSION LOSS (dB/km)	DISTINCTIVENESS
TEST 1	0.8	5	0.00	×
TEST 2	1	5	0.00	○
TEST 3	10	5	0.01	○
TEST 4	15	5	0.02	○
TEST 5	20	5	0.04	○
TEST 6	1	10	0.00	○
TEST 7	10	10	0.00	○
TEST 8	1	11	0.02	×
TEST 9	10	11	0.02	×

6/11

FIG.6A

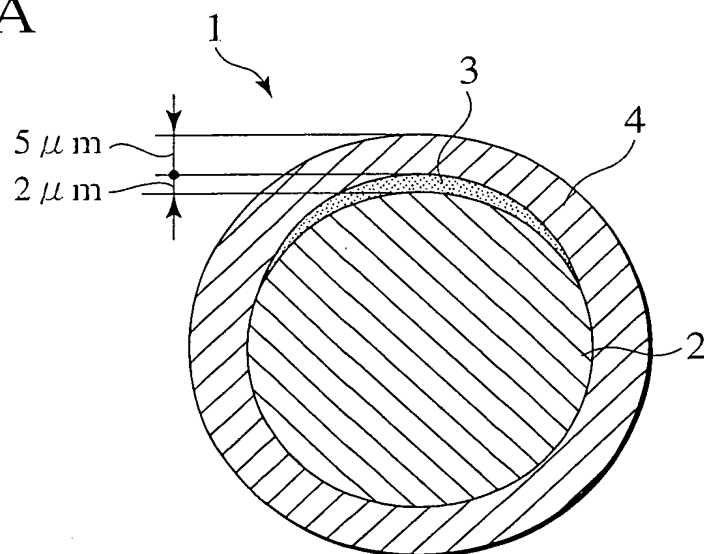


FIG.6B

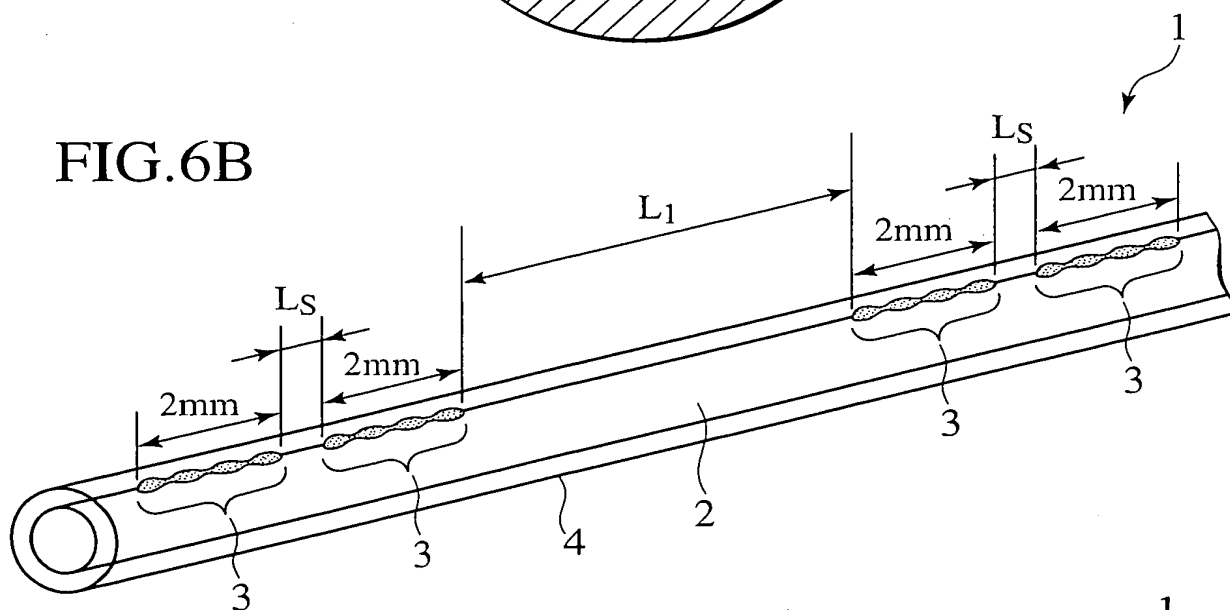
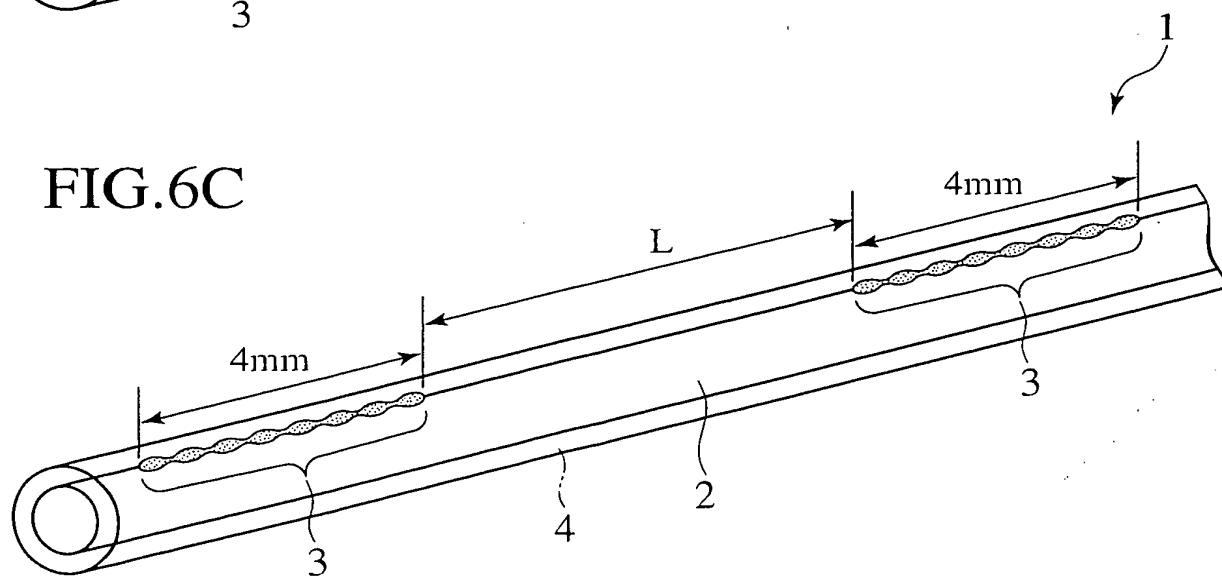


FIG.6C



7/11

FIG.7

	LENGTH OF DISTINCTIVE LAYER (mm)	MINIMUM INTERVAL OF DISTINCTIVE LAYER (mm)	MAXIMUM INTERVAL OF DISTINCTIVE LAYER (mm)	INTERVAL OF DISTINCTIVE LAYER (mm)	DISTINCTIVENESS
TEST 1	2	0.5	50	—	×
TEST 2	2	1	50	—	○
TEST 3	2	2	50	—	○
TEST 4	2	2	100	—	○
TEST 5	2	2	200	—	○
TEST 6	2	2	300	—	×
TEST 7	4	—	—	0.5	×
TEST 8	4	—	—	1	○
TEST 9	4	—	—	2	○
TEST 10	4	—	—	10	○
TEST 11	4	—	—	100	○
TEST 12	4	—	—	200	○
TEST 13	4	—	—	300	×

8/11

FIG.8A

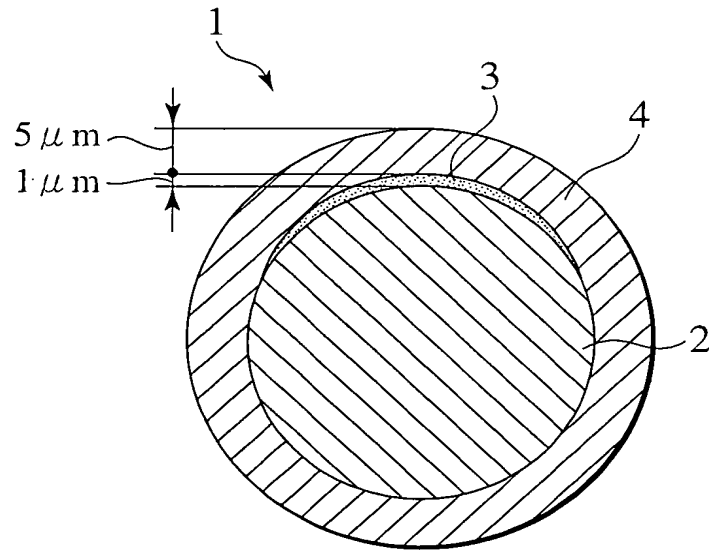
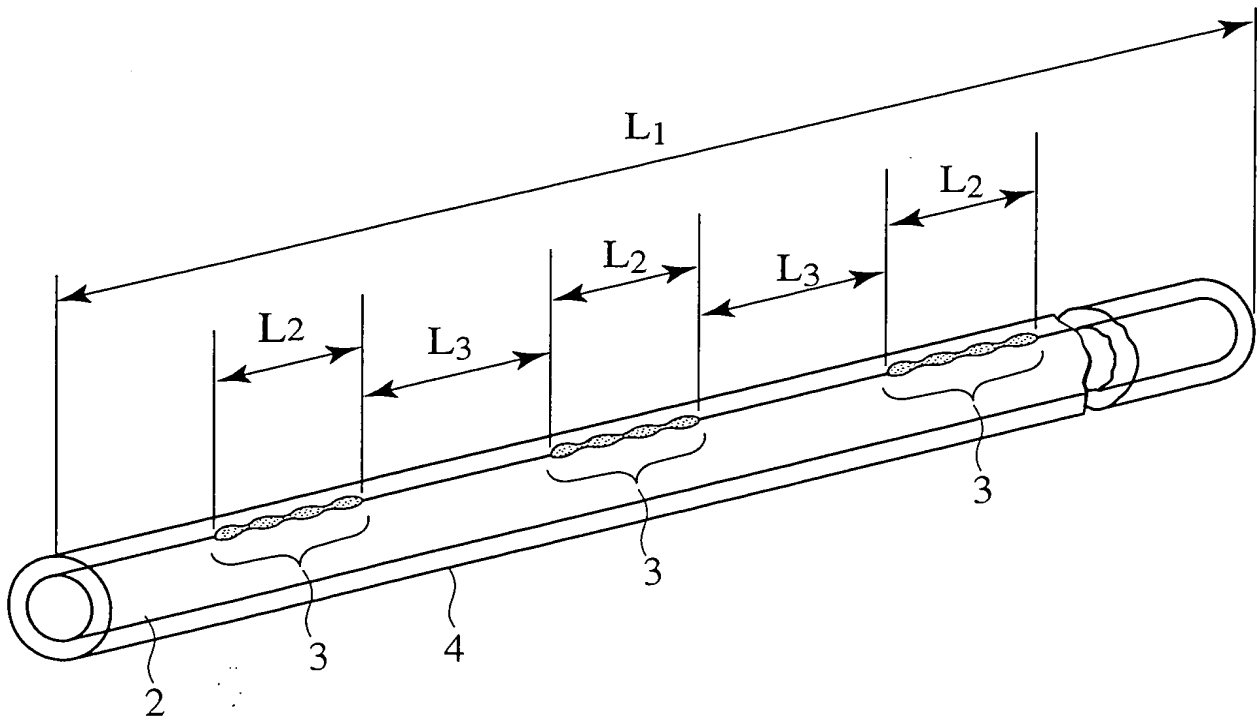


FIG.8B



9/11

FIG.9

	LENGTH OF DISTINCTIVE LAYER (mm)	LENGTH OF NON-DISTINCTIVE LAYER (mm)	DEGREE OF OCCUPANCY OF DISTINCTIVE LAYER (%)	VARIATIONS IN TRANSMISSION LOSS (dB/km)	DISTINCTIVENESS
TEST 1	2	48	4	0.00	○
TEST 2	5	45	10	0.01	○
TEST 3	10	40	20	0.02	○
TEST 4	15	35	30	0.28	○
TEST 5	4	96	4	0.00	○
TEST 6	10	90	10	0.01	○
TEST 7	20	80	20	0.02	○
TEST 8	30	70	30	0.3	○

10/11

FIG.10A

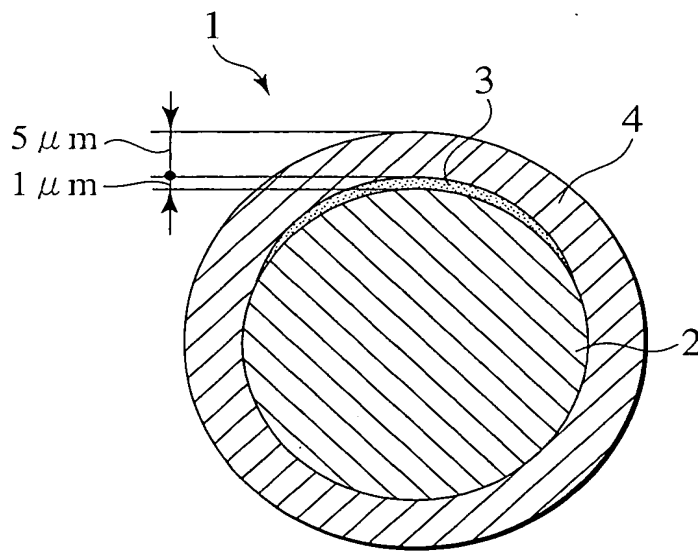
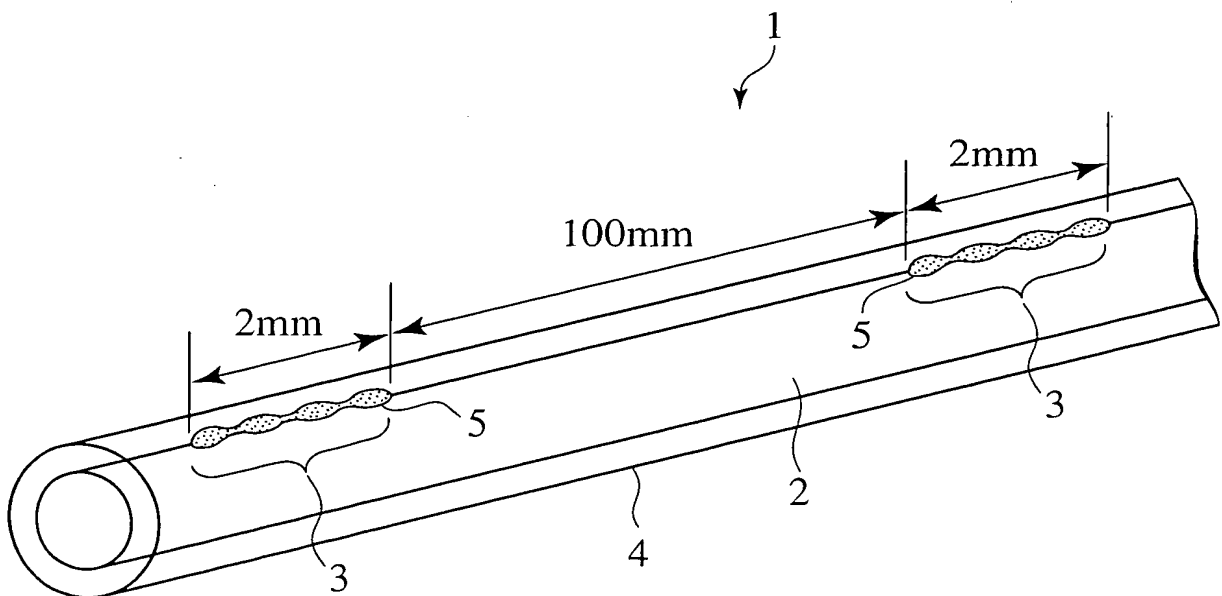


FIG.10B



11/11

FIG.11

	MAJOR DIAMETER OF FINE DROP OF INK (μm)	DISTINCTIVENESS	MANUFACTURED LENGTH OF OPTICAL FIBER*)
TEST 1	80	×	100
TEST 2	100	○	100
TEST 3	200	○	100
TEST 4	250	○	95
TEST 5	400	○	80
TEST 6	500	○	65
TEST 7	600	○	50

*) SHOWING RELATIVE VALUES WHERE
THE VALUE OF TEST 2 IS SET AT 100